

Marine Turbine comprehensive training technical solution

I. Overview

This technical solution is designed for the comprehensive training cabin of the marine engine. It is designed to meet the needs of the maritime schools to train the high-quality professional talents of marine engineering, ship electrical and electronic engineering, and to meet the requirements of the International Maritime Organization (STCW Convention) and others. Relevant regulations related to the requirements for engineers, electrical and electronic personnel assessment training and practical examinations.

Second, the turbine integrated training cabin function module

The comprehensive training cabin of the turbine consists of the following six functional modules:

1. Main propulsion system for marine diesel engines;
2. Diesel engine power piping;
3. Ship power station;
4. Engine room auxiliary system;
- 5, centralized control room, simulation cab and host remote control system
6. Integrated monitoring system.

Third, the engine simulation training cabin function

1. Meet the requirements of engineers, ship electric and electronic engineers and other related professional marine diesel engines, marine auxiliary engines, and turbines.

Most training teaching requirements such as automation, marine motors and marine electrical equipment, to train high-quality ship technicians

Provide good practical teaching methods.

2. On land, the internship of the ship cabin can be completed to the utmost extent, and the teaching operation and evaluation training should be satisfied and completed.

begging. Such as host backup start management, host performance test and adjustment, power generation diesel engine, oil separator, air compressor system,

Steering gear system, desalination system, anti-pollution equipment, ship piping, electrical testing, power station and engine room automation

Assessment training.

3. The completed turbine simulation training cabin meets relevant requirements, including:

- (1) The training cabin has the function of manual side control of the equipment;
- (2) The centralized control room has a remote control or working status display function for the main equipment;
- (3) The monitoring room can realize various working condition monitoring, working condition display and recording for all equipments (except manual).

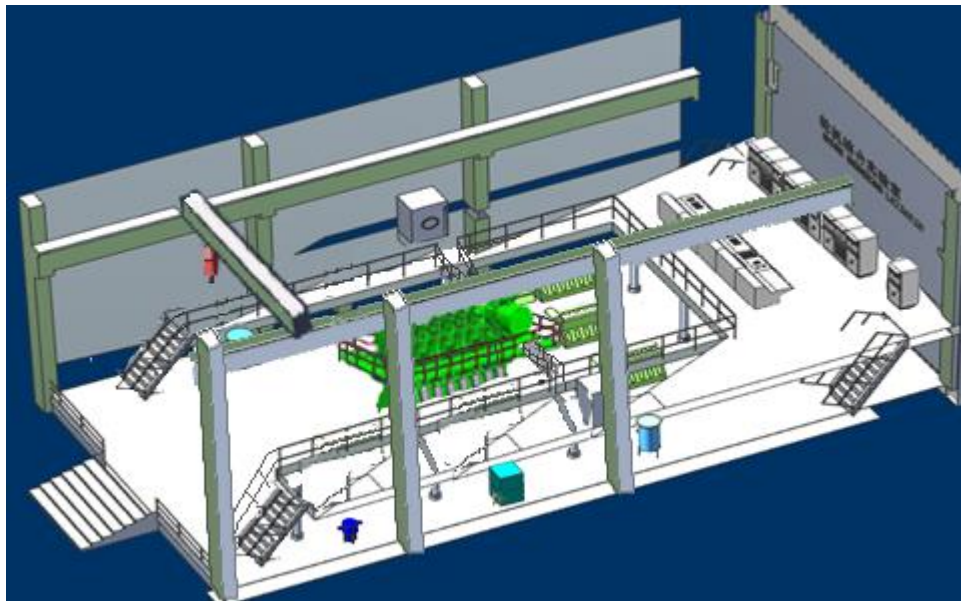
Recording, printing, alarm (sound and light) and fault handling tips and other functions.

(4) Intelligent unit control (except manual) is implemented for each unit device control, leaving a standard network interface. The serial server is used to form each unit device into an organic whole, and access to the computer network in the centralized control room.

Network

(5) The main equipment of the engine room can be operated in the driving console;

(6) The computer network has automatic and manual recording of various types of data and can be retained for a certain period of time.



Three-dimensional schematic diagram of the comprehensive training cabin of the turbine

2,Equipment technical requirements

- (1) Marine diesel engine main propulsion power system
- (2) Diesel engine power piping
- (3) Ship power station
- (4) Engine room auxiliary system
- (5) Centralized control room, simulated cab and host remote control system
- (6) Integrated monitoring system
- (7) Indoor simulated cabin environment

3 Successful Project

